

Tuesday, February 03, 2015

Bob Evans
CH2M HILL Plateau Remediation Company
2420 Stevens Center
Richland, WA 99352

Re: ALS Workorder: 1501055
Project Name: 200W Pump & Treat - FBR Micronutrient Analysis - Water
Project Number: F13-018

Dear Mr. Evans:

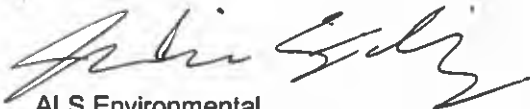
Three water samples were received from CH2M HILL Plateau Remediation Company, on 1/7/2015. The samples were scheduled for the following analysis:

Metals

The results for these analyses are contained in the enclosed reports.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,



ALS Environmental
Julie Ellingson
Project Manager

JME/jme
Enclosure(s):

ALS is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Laboratory Certifications	
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Maryland (MD)	285
Missouri	175
Nebraska	NE-OS-24-13
Nevada (NV)	CO000782008A
New Jersey (NJ)	CO003
North Dakota (ND)	R-057
Oklahoma	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington	C1280

Revised 8/15/2013

ALS Environmental -- FC**Sample Number(s) Cross-Reference Table**

OrderNum: 1501055**Client Name: CH2M HILL Plateau Remediation Company****Client Project Name: 200W Pump & Treat - FBR Micronutrient Analysis - Water****Client Project Number: F13-018****Client PO Number: BOA 54854**

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
B304R6	1501055-1		WATER	05-Jan-15	12:50
B304R1	1501055-2		WATER	05-Jan-15	12:16
B304P6	1501055-3		WATER	05-Jan-15	12:00

CH2M HILL Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F13-018-176	PAGE 1 OF 1
COLLECTOR	J.R. Aguilar/CHPRC	COMPANY CONTACT	EVANS, RT	TELEPHONE NO.	373-7924
SAMPLING LOCATION	289-T, Effluent Tank, Valve V07-Y80D	PROJECT DESIGNATION	200W Pump & Treat - FBR Micronutrient Analysis - Water	PROJECT COORDINATOR	EVANS, RT
ICE CHEST NO.	GWS-426	FIELD LOGBOOK NO.	HNF-N-491-9/124	SAF NO.	F13-018
SHIPPED TO	ALS Environmental	OFFSITE PROPERTY NO.	5311	COA	303110
		BILL OF LADING/AIR BILL NO.		7724 7530 6840	

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HNO3 to pH
A=Air	*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	HOLDING TIME	6 Months
DL=Drum		TYPE OF CONTAINER	G/P
L=Liquid		NO. OF CONTAINER(S)	1
O=Oil		VOLUME	500mL
S=Soil		SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS
T=Tissue		SAMPLE DATE	1-5-15
V=Vegetation		SAMPLE TIME	1250
W=Water			
WI=Wipe			
X=Other			

FILTER

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	Filtering shall be performed by SGRP Field Sampling Services using a (0.45µm) filter while in the field. The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-14-	
J.R. Aguilar/CHPRC	JAN 05 2015 1405	SSU 11	JAN 05 2015 1405		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	(1) 6020_METALS_ICPMS: COMMON {Aluminum, Chromium, Cobalt, Copper, Molybdenum, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Arsenic, Manganese, Nickel, Strontium, Zirconium}; 6010_METALS_ICP: COMMON {Calcium, Iron, Magnesium}; 6010_METALS_ICP: COMMON (Add-on) {Boron, Phosphorus};	
K.C. Patterson	JAN 06 2015 0700	CHPRC	JAN 06 2015 0700		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
J.R. Aguilar/CHPRC	JAN 06 2015 1130	FEDEX	JAN 06 2015 1130		
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RELINQUISHED BY/REMOVED					

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F13-018-171	PAGE 1 OF 1
COLLECTOR J.R. Aguilar/CHPRC	COMPANY CONTACT EVANS, RT	TELEPHONE NO. 373-7924	PROJECT COORDINATOR EVANS, RT	PRICE CODE 7C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-T, FBR-B Effluent, valve V25-Y40B1	PROJECT DESIGNATION 200W Pump & Treat - FBR Micronutrient Analysis - Water			AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO. GWS-426	FIELD LOGBOOK NO. HNF-2-491-9 / Pg 124	ACTUAL SAMPLE DEPTH N/A	COA 303110	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO ALS Environmental	OFFSITE PROPERTY NO. 5311	BILL OF LADING/AIR BILL NO. 7724 7530 6840			

MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	PRESERVATION HNO3 to pH <2	HOLDING TIME 6 Months	TYPE OF CONTAINER G/P	NO. OF CONTAINER(S) 1	VOLUME 500ml	SAMPLE ANALYSIS SEE ITEM (1) IN SPECIAL INSTRUCTIONS
SPECIAL HANDLING AND/OR STORAGE		FILTER					
SAMPLE NO. B304R1	MATRIX* WATER	SAMPLE DATE 1-5-15	SAMPLE TIME 12K				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM J.R. Aguilar/CHPRC	DATE/TIME JAN 05 2015 1405	RECEIVED BY/STORED IN SSU #1	DATE/TIME JAN 05 2015 1405	Filtering shall be performed by SGRP Field Sampling Services using a (0.45µm) filter while in the field. The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-14-207	
RELINQUISHED BY/REMOVED FROM SSU-1	DATE/TIME JAN 06 2015 0700	RECEIVED BY/STORED IN CHPRC	DATE/TIME JAN 06 2015 0700	(1) 6020_METALS_ICPMS: COMMON {Aluminum, Chromium, Cobalt, Copper, Molybdenum, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Arsenic, Manganese, Nickel, Strontium, Zinc};	
RELINQUISHED BY/REMOVED FROM CHPRC	DATE/TIME JAN 06 2015 1130	RECEIVED BY/STORED IN FEDEX	DATE/TIME JAN 06 2015 1130	6010_METALS_ICP: COMMON {Calcium, Iron, Magnesium}; 6010_METALS_ICP: COMMON (Add-on) {Boron, Phosphorus};	
RELINQUISHED BY/REMOVED FROM FEDEX	DATE/TIME JAN 06 2015 1130	RECEIVED BY/STORED IN Jumble Chery/Tamb	DATE/TIME JAN 06 2015 1130	TRVL-14-207	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION Jumble	RECEIVED BY	TITLE Lab Tech	DATE/TIME 1-7-15	DATE/TIME 1315	
FINAL SAMPLE DISPOSAL	DISPOSAL METHOD	DISPOSED BY			

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F13-018-166	PAGE 1 OF 1
COLLECTOR	J.R. Aquilino/CHPRC	COMPANY CONTACT	EVANS, RT	PROJECT COORDINATOR	EVANS, RT
SAMPLING LOCATION	289-T, FBR-A Effluent, valve V25-Y40A1	PROJECT DESIGNATION	200W Pump & Treat - FBR Micronutrient Analysis - Water	SAF NO.	F13-018
ICE CHEST NO.	GWS-426	FIELD LOGBOOK NO.	HNF-N-491-9/18 124	ACTUAL SAMPLE DEPTH	N/A
SHIPPED TO	ALS Environmental	OFFSITE PROPERTY NO.	5311	BILL OF LADING/AIR BILL NO.	7724 7530 6840

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HNO3 to pH
A=Air	*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	HOLDING TIME	<2
DL=Drum		TYPE OF CONTAINER	6 Months
DS=Drum		NO. OF CONTAINER(S)	G/P
L=Liquid		VOLUME	1
O=Oil		SAMPLE ANALYSIS	500mL
S=Soil		SAMPLE DATE	SEE ITEM (1) IN SPECIAL INSTRUCTIONS
SE=Sediment		SAMPLE TIME	
T=Tissue			
V=Vegetation			
W=Water			
WI=Wipe			
X=Other			

FILTER

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	Filtering shall be performed by SGRP Field Sampling Services using a (0.45µm) filter while in the field. The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-14-	
J.R. Aquilino/CHPRC	JAN 05 2015 1405	SSU #1	JAN 05 2015 1405		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	(1) 6020_METALS_ICPMS: COMMON {Aluminum, Chromium, Cobalt, Copper, Molybdenum, Selenium}; 6020_METALS_ICPMS: COMMON {Add-on} {Arsenic, Manganese, Nickel, Strontium, Zinc}; 6010_METALS_ICP: COMMON {Calcium, Iron, Magnesium}; 6010_METALS_ICP: COMMON (Add-on) {Boron, Phosphorus};	
K.C. Patterson/CHPRC	JAN 06 2015 0700	C. Patterson	JAN 06 2015 0700		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
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ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: CH2MHILL PRCWorkorder No: 1501055Project Manager: SMEInitials: CAI Date: 1-7-15

1. Does this project require any special handling in addition to standard ALS procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	NONE	<input checked="" type="radio"/> YES	NO
3. Are Custody seals on sample containers intact?	NONE	<input checked="" type="radio"/> YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	<input checked="" type="radio"/> YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	<input checked="" type="radio"/> N/A	YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ____ < green pea ____ > green pea	<input checked="" type="radio"/> N/A	YES	NO
15. Do any water samples contain sediment? Amount Amount of sediment: ____ dusting ____ moderate ____ heavy	N/A	YES	<input checked="" type="radio"/> NO
16. Were the samples shipped on ice?		YES	<input checked="" type="radio"/> NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 #4 RAD ONLY		YES	<input checked="" type="radio"/> NO
Cooler #: <u>1</u>			
Temperature (°C): <u>Amb</u>			
No. of custody seals on cooler: <u>2</u>			
External µR/hr reading: <u>13</u>			
Background µR/hr reading: <u>11</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> YES / NO / NA (If no, see Form 008)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: [Signature] 1/9/15

From: (509) 528-2763
Frank Hall
CH2M
6267 Latah St.
Richland, WA 99354

Origin ID: PSCA



Ship Date: 06 JAN 15
Act/Wgt: 27.0 LB
CAD: 107068051/NET3550

Delivery Address Bar Code



SHIP TO: (970) 498-1511
Julie Ellingson
ALS Global
225 Commerce Drive
FORT COLLINS, CO 80524

BILL THIRD PARTY

Ref # GWS-428 (5311)
Invoice #
PO #
Dept #

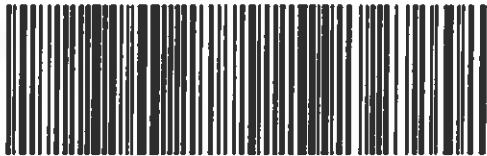
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PRIORITY OVERNIGHT

DSR
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TRK# 7724 7530 6840
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After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



Metals

Case Narrative

CH2M HILL Plateau Remediation Company

200W Pump & Treat – FBR Micronutrient Analysis - Water– F13-018

Work Order Number: 1501055

1. This report consists of 3 water samples.
2. The samples were received intact at ambient temperature by ALS on 01/07/15.
3. The samples were to be analyzed for dissolved metals. The samples had been filtered prior to receipt, and had a pH less than 2 upon receipt.
4. The samples were prepared and analyzed based on SW-846, 3rd Edition procedures.

For analysis by Trace ICP and ICP-MS, the samples were digested following method 3005A and the current revision of SOP 806.

5. Analysis by Trace ICP followed method 6010B and the current revision of SOP 834.

Analysis by ICP-MS followed method 6020A and the current revision of SOP 827.

6. All standards and solutions are NIST traceable and were used within their recommended shelf life.
7. The samples were prepared and analyzed within the established hold times.

All in house quality control procedures were followed, as described below.

8. General quality control procedures.
 - A preparation (method) blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
 - The preparation (method) blank associated with each digestion batch was below the reporting limit for the requested analytes.



- All laboratory control sample criteria were met.
- All initial and continuing calibration blanks were below the reporting limit for the requested analytes.
- All initial and continuing calibration verifications were within the acceptance criteria for the requested analytes.
- The interference check samples and high standard readbacks associated with Method 6010B were within acceptance criteria.
- The interference check samples associated with Method 6020A were analyzed.

9. Matrix specific quality control procedures.


Sample 1501055-1 was designated as the quality control sample for the ICP-MS analysis. Sample 1501024-1 was designated as the quality control sample for the Trace ICP analysis. Results for the shared quality control samples are included at the client's request.

Similarity of matrix and therefore relevance of the QC results should not be automatically inferred for any sample other than the native sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for accuracy were met.
- A sample duplicate and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.
- A serial dilution was analyzed with each ICP batch. All acceptance criteria were met.

10. It is a standard practice that samples for ICP-MS are analyzed at a dilution.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.



Jill Latelle
Inorganics Primary Data Reviewer

1/31/15

Date



Julie E. Ellis
Inorganics Final Data Reviewer

2/3/15

Date



Inorganic Data Reporting Qualifiers

The following qualifiers are used by the laboratory when reporting results of inorganic analyses.

- Result qualifier -- A "B" is entered if the reported value was obtained from a reading that was less than the Reporting Limit but greater than or equal to the Method Detection Limit (MDL). If the analyte was analyzed for but not detected a "U" is entered. For samples, negative values are reported as non-detects ("U" flagged). For blanks, if the absolute value of the negative value is above the MDL and below the reporting limit, then the result is "B" flagged.
- QC qualifier -- Specified entries and their meanings are as follows:
 - E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 - M - Duplicate injection precision was not met.
 - N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
 - Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 - * - Duplicate analysis (relative percent difference) not within control limits.
 - S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Dissolved ICP Metals**Method SW6010B****Sample Results****Lab Name:** ALS Environmental -- FC**Work Order Number:** 1501055**Client Name:** CH2M HILL Plateau Remediation Company**ClientProject ID:** 200W Pump & Treat - FBR Micronutrient Analysis - Water F13-0**Field ID:** B304R6
Lab ID: 1501055-1**Sample Matrix:** WATER**% Moisture:** N/A**Date Collected:** 05-Jan-15**Date Extracted:** 12-Jan-15**Date Analyzed:** 13-Jan-15**Prep Method:** SW3005 Rev A**Prep Batch:** IP150112-4**QCBatchID:** IP150112-4-1**Run ID:** IP150113-2A6**Cleanup:** NONE**Basis:** As Received**File Name:****Analyst:** Brent A. Stanfield**Sample Aliquot:** 50 ml**Final Volume:** 50 ml**Result Units:** UG/L**Clean DF:** 1**Analysis ReqCode:** B

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
7440-42-8	BORON	1	52	30	4.8		
7440-70-2	CALCIUM	1	53000	1000	88		
7439-89-6	IRON	1	29	50	18	B	
7439-95-4	MAGNESIUM	1	19000	750	91		
7723-14-0	PHOSPHORUS	1	1100	50	17		

Data Package ID: *ip1501055-1*

Dissolved ICP Metals**Method SW6010B****Sample Results****Lab Name:** ALS Environmental -- FC**Work Order Number:** 1501055**Client Name:** CH2M HILL Plateau Remediation Company**ClientProject ID:** 200W Pump & Treat - FBR Micronutrient Analysis - Water F13-0**Field ID:** B304R1
Lab ID: 1501055-2**Sample Matrix:** WATER**% Moisture:** N/A**Date Collected:** 05-Jan-15**Date Extracted:** 12-Jan-15**Date Analyzed:** 13-Jan-15**Prep Method:** SW3005 Rev A**Prep Batch:** IP150112-4**QCBatchID:** IP150112-4-1**Run ID:** IP150113-2A6**Cleanup:** NONE**Basis:** As Received**File Name:****Analyst:** Brent A. Stanfield**Sample Aliquot:** 50 ml**Final Volume:** 50 ml**Result Units:** UG/L**Clean DF:** 1**Analysis ReqCode:** B

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
7440-42-8	BORON	1	51	30	4.8		
7440-70-2	CALCIUM	1	54000	1000	88		
7439-89-6	IRON	1	41	50	18	B	
7439-95-4	MAGNESIUM	1	19000	750	91		
7723-14-0	PHOSPHORUS	1	580	50	17		

Data Package ID: *ip1501055-1*

Dissolved ICP Metals**Method SW6010B****Sample Results****Lab Name:** ALS Environmental -- FC**Work Order Number:** 1501055**Client Name:** CH2M HILL Plateau Remediation Company**ClientProject ID:** 200W Pump & Treat - FBR Micronutrient Analysis - Water F13-0**Field ID:** B304P6
Lab ID: 1501055-3**Sample Matrix:** WATER**% Moisture:** N/A**Date Collected:** 05-Jan-15**Date Extracted:** 12-Jan-15**Date Analyzed:** 13-Jan-15**Prep Method:** SW3005 Rev A**Prep Batch:** IP150112-4**QCBatchID:** IP150112-4-1**Run ID:** IP150113-2A6**Cleanup:** NONE**Basis:** As Received**File Name:****Analyst:** Brent A. Stanfield**Sample Aliquot:** 50 ml**Final Volume:** 50 ml**Result Units:** UG/L**Clean DF:** 1**Analysis ReqCode:** B

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
7440-42-8	BORON	1	46	30	4.8		
7440-70-2	CALCIUM	1	52000	1000	88		
7439-89-6	IRON	1	68	50	18		
7439-95-4	MAGNESIUM	1	18000	750	91		
7723-14-0	PHOSPHORUS	1	360	50	17		

Data Package ID: ip1501055-1

Dissolved ICPMS Metals**Method SW6020A****Sample Results****Lab Name:** ALS Environmental -- FC**Work Order Number:** 1501055**Client Name:** CH2M HILL Plateau Remediation Company**ClientProject ID:** 200W Pump & Treat - FBR Micronutrient Analysis - Water F13-0**Field ID:** B304R6
Lab ID: 1501055-1**Sample Matrix:** WATER**% Moisture:** N/A**Date Collected:** 05-Jan-15**Date Extracted:** 20-Jan-15**Date Analyzed:** 26-Jan-15**Prep Method:** SW3005 Rev A**Prep Batch:** IP150120-2**QCBatchID:** IP150120-2-1**Run ID:** IM150126-10A3**Cleanup:** NONE**Basis:** As Received**File Name:** 017SMPL_**Analyst:** Brent A. Stanfield**Sample Aliquot:** 50 ml**Final Volume:** 50 ml**Result Units:** UG/L**Clean DF:** 1**Analysis ReqCode:** AI

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	43	50	17	B	
7440-38-2	ARSENIC	10	0.3	2	0.25	B	
7440-47-3	CHROMIUM	10	3.7	10	1.3	B	
7440-48-4	COBALT	10	1.8	1	0.17		
7440-50-8	COPPER	10	5.9	8	2.8	B	
7439-96-5	MANGANESE	10	8.5	5	0.52		
7439-98-7	MOLYBDENUM	10	26	1	0.43		
7440-02-0	NICKEL	10	3.9	5	1.4	B	
7782-49-2	SELENIUM	10	2.3	1	0.54		
7440-24-6	STRONTIUM	10	220	1	0.32		
7440-66-6	ZINC	10	6.8	20	6.8	U	

Data Package ID: im1501055-1

Dissolved ICPMS Metals**Method SW6020A****Sample Results****Lab Name:** ALS Environmental -- FC**Work Order Number:** 1501055**Client Name:** CH2M HILL Plateau Remediation Company**ClientProject ID:** 200W Pump & Treat - FBR Micronutrient Analysis - Water F13-0**Field ID:** B304R1
Lab ID: 1501055-2**Sample Matrix:** WATER**% Moisture:** N/A**Date Collected:** 05-Jan-15**Date Extracted:** 20-Jan-15**Date Analyzed:** 26-Jan-15**Prep Method:** SW3005 Rev A**Prep Batch:** IP150120-2**QCBatchID:** IP150120-2-1**Run ID:** IM150126-10A3**Cleanup:** NONE**Basis:** As Received**File Name:** 022SMPL_**Analyst:** Brent A. Stanfield**Sample Aliquot:** 50 ml**Final Volume:** 50 ml**Result Units:** UG/L**Clean DF:** 1**Analysis ReqCode:** AI

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	20	50	17	B	
7440-38-2	ARSENIC	10	1.5	2	0.25	B	
7440-47-3	CHROMIUM	10	3.5	10	1.3	B	
7440-48-4	COBALT	10	16	1	0.17		
7440-50-8	COPPER	10	2.8	8	2.8	U	
7439-96-5	MANGANESE	10	69	5	0.52		
7439-98-7	MOLYBDENUM	10	25	1	0.43		
7440-02-0	NICKEL	10	5.8	5	1.4		
7782-49-2	SELENIUM	10	2.3	1	0.54		
7440-24-6	STRONTIUM	10	230	1	0.32		
7440-66-6	ZINC	10	6.8	20	6.8	U	

Data Package ID: *im1501055-1*

Dissolved ICPMS Metals**Method SW6020A****Sample Results****Lab Name:** ALS Environmental -- FC**Work Order Number:** 1501055**Client Name:** CH2M HILL Plateau Remediation Company**ClientProject ID:** 200W Pump & Treat - FBR Micronutrient Analysis - Water F13-0**Field ID:** B304P6
Lab ID: 1501055-3**Sample Matrix:** WATER**% Moisture:** N/A**Date Collected:** 05-Jan-15**Date Extracted:** 20-Jan-15**Date Analyzed:** 26-Jan-15**Prep Method:** SW3005 Rev A**Prep Batch:** IP150120-2**QCBatchID:** IP150120-2-1**Run ID:** IM150126-10A3**Cleanup:** NONE**Basis:** As Received**File Name:** 023SMPL_**Analyst:** Brent A. Stanfield**Sample Aliquot:** 50 ml**Final Volume:** 50 ml**Result Units:** UG/L**Clean DF:** 1**Analysis ReqCode:** AI

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	26	50	17	B	
7440-38-2	ARSENIC	10	0.85	2	0.25	B	
7440-47-3	CHROMIUM	10	6.8	10	1.3	B	
7440-48-4	COBALT	10	17	1	0.17		
7440-50-8	COPPER	10	2.8	8	2.8	U	
7439-96-5	MANGANESE	10	78	5	0.52		
7439-98-7	MOLYBDENUM	10	26	1	0.43		
7440-02-0	NICKEL	10	7.4	5	1.4		
7782-49-2	SELENIUM	10	2.4	1	0.54		
7440-24-6	STRONTIUM	10	230	1	0.32		
7440-66-6	ZINC	10	6.8	20	6.8	U	

Data Package ID: im1501055-1

ICP Metals

Method SW6010B

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1501055

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 200W Pump & Treat - FBR Micronutrient Analysis - Water F13-0

Lab ID: IP150112-4MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 12-Jan-15

Date Analyzed: 13-Jan-15

Prep Batch: IP150112-4

QCBatchID: IP150112-4-1

Run ID: IP150113-2A6

Cleanup: NONE

Basis: N/A

File Name:

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
7440-42-8	BORON	1	4.8	30	4.8	U	
7440-70-2	CALCIUM	1	88	1000	88	U	
7439-89-6	IRON	1	18	50	18	U	
7439-95-4	MAGNESIUM	1	91	750	91	U	
7723-14-0	PHOSPHORUS	1	17	50	17	U	

Data Package ID: ip1501055-1

ICP Metals

Method SW6010B

Laboratory Control Sample

Lab Name: ALS Environmental -- FC

Work Order Number: 1501055

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 200W Pump & Treat - FBR Micronutrient Analysis - Water F13-0

Lab ID: IP150112-4LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 01/12/2015

Date Analyzed: 01/13/2015

Prep Method: SW3005A

Prep Batch: IP150112-4

QCBatchID: IP150112-4-1

Run ID: IP150113-2A6

Cleanup: NONE

Basis: N/A

File Name:

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7440-42-8	BORON	1000	977	30		98	80 - 120%
7440-70-2	CALCIUM	40000	36200	1000		90	80 - 120%
7439-89-6	IRON	1000	1010	50		101	80 - 120%
7439-95-4	MAGNESIUM	40000	37000	750		93	80 - 120%
7723-14-0	PHOSPHORUS	10000	9630	50		96	80 - 120%

Data Package ID: *ip1501055-1*

ICP Metals

Method SW6010B

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1501055

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 200W Pump & Treat - FBR Micronutrient Analysis - Water F

Field ID: SHARED QC

LabID: 1501024-1MS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 05-Jan-15

Date Extracted: 12-Jan-15

Date Analyzed: 13-Jan-15

Prep Method: SW3005 Rev A

Prep Batch: IP150112-4

QCBatchID: IP150112-4-1

Run ID: IP150113-2A6

Cleanup: NONE

Basis: As Received

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

File Name:

CASNO	Target Analyte	Sample Result	Samp Qual	MS Result	MS Qual	Reporting Limit	Spike Added	MS % Rec.	Control Limits
7440-42-8	BORON	37		1020		30	1000	98	80 - 120%
7440-70-2	CALCIUM	55000		89400		1000	40000	85	80 - 120%
7439-89-6	IRON	18	U	990		50	1000	99	80 - 120%
7439-95-4	MAGNESIUM	19000		55500		750	40000	90	80 - 120%
7723-14-0	PHOSPHORUS	19	B	9570		50	10000	95	80 - 120%

Field ID: SHARED QC

LabID: 1501024-1MSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 05-Jan-15

Date Extracted: 12-Jan-15

Date Analyzed: 13-Jan-15

Prep Method: SW3005 Rev A

Prep Batch: IP150112-4

QCBatchID: IP150112-4-1

Run ID: IP150113-2A6

Cleanup: NONE

Basis: As Received

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

File Name:

CASNO	Target Analyte	MSD Result	MSD Qual	Spike Added	MSD % Rec.	Reporting Limit	RPD Limit	RPD
7440-42-8	BORON	1060		1000	102	30	20	4
7440-70-2	CALCIUM	92000		40000	92	1000	20	3
7439-89-6	IRON	1010		1000	101	50	20	2
7439-95-4	MAGNESIUM	57200		40000	94	750	20	3
7723-14-0	PHOSPHORUS	9930		10000	99	50	20	4

Data Package ID: ip1501055-1

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ICPMS Metals

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Method SW6020A
Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1501055

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 200W Pump & Treat - FBR Micronutrient Analysis - Water F13-0

Lab ID: IP150120-2MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 20-Jan-15

Date Analyzed: 25-Jan-15

Prep Batch: IP150120-2

QCBatchID: IP150120-2-1

Run ID: IM150125-11A4

Cleanup: NONE

Basis: N/A

File Name: 022SMPL_

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	17	50	17	U	
7440-38-2	ARSENIC	10	0.25	2	0.25	U	
7440-47-3	CHROMIUM	10	1.3	10	1.3	U	
7440-48-4	COBALT	10	0.17	1	0.17	U	
7440-50-8	COPPER	10	2.8	8	2.8	U	
7439-96-5	MANGANESE	10	0.52	5	0.52	U	
7439-98-7	MOLYBDENUM	10	0.43	1	0.43	U	
7440-02-0	NICKEL	10	1.4	5	1.4	U	
7782-49-2	SELENIUM	10	0.54	1	0.54	U	
7440-24-6	STRONTIUM	10	0.32	1	0.32	U	
7440-66-6	ZINC	10	-14	20	6.8	B	

Data Package ID: im1501055-1

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Method SW6020A
Laboratory Control Sample

Lab Name: ALS Environmental -- FC

Work Order Number: 1501055

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 200W Pump & Treat - FBR Micronutrient Analysis - Water F13-0

Lab ID: IP150120-2LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 01/20/2015

Date Analyzed: 01/25/2015

Prep Method: SW3005A

Prep Batch: IP150120-2

QCBatchID: IP150120-2-1

Run ID: IM150125-11A4

Cleanup: NONE

Basis: N/A

File Name: 024SMPL_

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7429-90-5	ALUMINUM	5000	5030	50		101	80 - 120%
7440-38-2	ARSENIC	100	97.1	2		97	80 - 120%
7440-47-3	CHROMIUM	500	479	10		96	80 - 120%
7440-48-4	COBALT	100	98.5	1		99	80 - 120%
7440-50-8	COPPER	1000	1040	8		104	80 - 120%
7439-96-5	MANGANESE	100	94.7	5		95	80 - 120%
7439-98-7	MOLYBDENUM	100	95.1	1		95	80 - 120%
7440-02-0	NICKEL	500	478	5		96	80 - 120%
7782-49-2	SELENIUM	100	93.7	1		94	80 - 120%
7440-24-6	STRONTIUM	100	96.4	1		96	80 - 120%
7440-66-6	ZINC	2000	2010	20		100	80 - 120%

Data Package ID: im1501055-1

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ASL1501055
ICPMS Metals

February 3, 2015

Method SW6020A
Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1501055
Client Name: CH2M HILL Plateau Remediation Company
ClientProject ID: 200W Pump & Treat - FBR Micronutrient Analysis - Water F

Field ID: B304R6

LabID: 1501055-1MS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 05-Jan-15

Date Extracted: 20-Jan-15

Date Analyzed: 26-Jan-15

Prep Method: SW3005 Rev A

Prep Batch: IP150120-2

QCBatchID: IP150120-2-1

Run ID: IM150126-10A3

Cleanup: NONE

Basis: As Received

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

File Name: 020SMPL_

CASNO	Target Analyte	Sample Result	Samp Qual	MS Result	MS Qual	Reporting Limit	Spike Added	MS % Rec.	Control Limits
7429-90-5	ALUMINUM	43	B	4910		50	5000	97	75 - 125%
7440-38-2	ARSENIC	0.3	B	97.8		2	100	97	75 - 125%
7440-47-3	CHROMIUM	3.7	B	487		10	500	97	75 - 125%
7440-48-4	COBALT	1.8		100		1	100	99	75 - 125%
7440-50-8	COPPER	5.9	B	1050		8	1000	104	75 - 125%
7439-96-5	MANGANESE	8.5		103		5	100	95	75 - 125%
7439-98-7	MOLYBDENUM	26		123		1	100	98	75 - 125%
7440-02-0	NICKEL	3.9	B	487		5	500	97	75 - 125%
7782-49-2	SELENIUM	2.3		99.7		1	100	97	75 - 125%
7440-24-6	STRONTIUM	220		322		1	100	101	75 - 125%
7440-66-6	ZINC	6.8	U	1980		20	2000	99	75 - 125%

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ICPMS Metals

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Method SW6020A
Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1501055
Client Name: CH2M HILL Plateau Remediation Company
ClientProject ID: 200W Pump & Treat - FBR Micronutrient Analysis - Water F

Field ID: B304R6

LabID: 1501055-1MSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 05-Jan-15

Date Extracted: 20-Jan-15

Date Analyzed: 26-Jan-15

Prep Method: SW3005 Rev A

Prep Batch: IP150120-2

QCBatchID: IP150120-2-1

Run ID: IM150126-10A3

Cleanup: NONE

Basis: As Received

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

File Name: 021SMPL_

CASNO	Target Analyte	MSD Result	MSD Qual	Spike Added	MSD % Rec.	Reporting Limit	RPD Limit	RPD
7429-90-5	ALUMINUM	5320		5000	105	50	20	8
7440-38-2	ARSENIC	102		100	102	2	20	5
7440-47-3	CHROMIUM	504		500	100	10	20	3
7440-48-4	COBALT	104		100	103	1	20	4
7440-50-8	COPPER	1110		1000	110	8	20	6
7439-96-5	MANGANESE	108		100	99	5	20	4
7439-98-7	MOLYBDENUM	127		100	102	1	20	3
7440-02-0	NICKEL	518		500	103	5	20	6
7782-49-2	SELENIUM	107		100	105	1	20	7
7440-24-6	STRONTIUM	325		100	104	1	20	1
7440-66-6	ZINC	2070		2000	104	20	20	4

Data Package ID: *im1501055-1*

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